



Bookstand that folds thin enough to serve as a bookmark

If you do a patent search for 'bookstands', you will find hundreds of patented inventions. The main purpose of a bookstand is to overcome the problem that when you read a book that is lying on a desk, it is not fully facing you but angled away from you, reducing your vision of the book. Most bookstands lift the back of the book so that the pages of the book face the reader more directly. Since a bookstand needs to support the weight of the book, it is often made of a substantial material, such as metal or wood. The disadvantage of such bookstands is that they are bulky and inconvenient to carry around. It becomes an additional item to carry around.

Our invention – which we call a 'thinstand™' – serves the basic purpose of most bookstands, e.g. tilting the back of the book towards the reader. The major difference with our invention is that it can fold flat when not serving as a bookstand. This has some important advantages:

- It is thin, light, and very convenient to carry around, because it can be put flat into the pages of the book itself.
- When it is put into the book, it can be placed at the page the reader is up to, thereby also serving as a bookmark.
- It can be made very inexpensively from such materials such as thin plastic or cardboard.
- It has a large flat surface area that faces the reader, making it an ideal 'advertising specialties item', especially since it can be made inexpensively.

For these reasons, our invention is novel, inventive, and very useful.

We will now describe the invention by referring to a series of 11 drawings. Some of the drawings reflect an older embodiment of the invention, and some a newer embodiment. The difference lies in how the back plane surface that the back of the book rests on locks into place into the legs that support it that back plane.

Diagram 1 shows the stand fully unfolded ready to receive a book. A flap 1 that is folded down and it has a lip 2 that is 'locked' into place into cutouts 3 and 4. This keeps the stand from 'unfolding' itself, and bears the weight of the book. This flap includes a 'lip' 2 that has two notches 10 and 11 that fits into corresponding notches 3 and 4 in the upper part of each of the legs. The legs have creases 6, 7, 9, 13, 14, and 15 that allow the stand to fold flat. The body of the stand also has cutouts 5 and 12 into which the front of the book slides and is held, keeping the pages from turning. The front surface of the bookstand is 8, which can be cut smaller.

Diagram 2 is very similar to diagram 1, but is a 'see-through' version where you can see the lines that are behind the surfaces in diagram 1. Specifically it shows how the flap that supports the book has a lip 6 that contains two V shaped cutouts 1 and 2, that

neatly into cutouts 3 and 4 that are in the legs 7 and 8. It is clear how cutouts 1 and 2 fit into 3 and 4 to give the bookstand sturdiness and to support the weight of the book.

Diagram 3 shows three views of the stand. The upper left View A shows the top view and shows flap 1 sitting on legs 2 and 2a. The upper right View B shows the side view. The back side surface is 4, the lip of the flap folds into the cutout 5 to give rigidity to the bookstand, and 6 is the cutout into which the pages of the book are placed to keep the pages from turning. The bottom View C shows the fully frontal view, which has a large surface to put 'ad specialty' imprinting. This view also shows 7 which shows how the plastic bends.

Diagram 4 shows the stand with a book resting on it from three additional angles. The upper left view shows it from above, the upper right shows it from the side, and the bottom drawing shows it from in front. 1 shows the front of the bookstand (which can be made smaller), 2 shows the cutout that receives the pages of the book, and 3 shows the flap upon which the back of the book rests.

Diagram 5 shows the stand with a book resting on it from the viewpoint of someone looking from behind the stand, with the person facing the other person who would be reading the book. 1 shows the back of the bookstand, and 2 and 3 show the cutouts that receive the pages of the book.

Diagram 6 shows the stand with the book on it. 1 and 3 show the cutouts that receive the left and right pages of the book respectively, and 2 shows the front of the bookstand that can be made smaller.

Diagram 7 shows the stand in the act of being folded. 1 and 2 are the cutouts of flap that fit into cutouts 7 and 8. 3 shows where flap 9 folds. Cutouts 4 and 5 are where the pages of the book are received when the stand is in its unfolded position. 6 is the front of the

Diagram 8 shows the stand in its fully folded position, and shows how tidy and thin it is in this position. 1 and 4 are the cutouts in flap 2 and lip 5. The front of stand is 3. When the stand is made of a thin, sturdy plastic, the stand can even be thinner than it is pictured here, and can serve the purpose of being used as a bookmark..

Diagram 9 shows the stand in its fully folded position. View A shows how flat the bookstand is, with all the layers stacked on top of each other as 1. View B shows the surface 4 of the stand in its folded position. View C shows the detail of the hinges 2 and 3, that permits the folding. In plastic this is often accomplished by using what is called 'living hinge', where a thinner section of the plastic permits repeated bending without causing the plastic to break.

The embodiment of the invention is for illustration purposes, and should not be construed as the only embodiment of the invention possible.

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